	VOCABULARY FRACTIONS						
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		fraction equal part equal grouping equal sharing parts of a whole half one of two equal parts quarter one of four equal parts	ALL PREVIOUS fraction equivalent fraction mixed number numerator, denominator, two halves, two quarters, three quarters one third, two thirds one of three equal parts	ALL PREVIOUS sixths, sevenths, eighths, tenths	ALL PREVIOUS hundredths decimal, decimal fraction, decimal point, decimal place, decimal equivalent proportion	ALL PREVIOUS proper/improper fraction equivalent, reduced to, cancel thousandths in every, for every percentage, per cent, %	
Strand	NURSERY/EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Countin g in fractio nal steps			Pupils should count in fractions up to 10, starting from any number and using the1/2 and 2/4 equivalence on the number line	count up and down in tenths	count up and down in hundredths		

COMPARING FRACTIONS	halving and sharing. parts of an / 4 , 2 / 4 and 3 / discrete set of object by one tenths, hundredths 67+ Months solves practical object, shape or quantity 4 of a length, shape, set of objects: unit fractions and dividing tenths by ten tenths, hundredths solves practical problems that involve Recognise, find and name a quanter as one of four equal parts of an object, shape or quantity Recognise that tenths arise from dividing an object into lequal parts object suit fractions an non-unit fractions shape or quantity shape or quantity shape or quantity Recognise that tenths arise from dividing an object equivalence) equivalence) object support shape or quantity shape or quantity Recognise and use fractions an numbers: unit fractions an numbers: unit fractions an numbers: init fractions numbers: unit support support comparison and non-unit fractions into equal parts into equal parts <t< th=""><th></th></t<>	
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		COMPARIN	Compare and order unit fractions, and fractions with the same denominators G DECIMALS		Compare and order fractions whose denominators are all multiples of the same number	Compare and order fractions, including fractions >1
		ROUNDING INCL	UDING DECIMALS	Compare numbers with the same number of decimal places up to two decimal places	Read, write, order and compare numbers with up to three decimal places	Identify the value of each digit in numbers given to three decimal places
				round decimals with one decimal place to the nearest whole number	number round decimals with two decimal places to the nearest whole number and to one decimal place	solve problems which require answers to be rounded to specified degrees of accuracy
	EQUIVALEN	NCE INCLUDING FRACTI	ONS, DECIMALS AND P	ERCENTAGES		
		Write simple fractions e.g. 1 / 2 of 6 = 3 and recognise the equivalence of 2 / 4 and 1 / 2.	Recognise and show, using diagrams, equivalent fractions with small denominators	Recognise and show, using diagrams, families of common equivalent fractions	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	Use common factors to simplify fractions; use common multiples to express

			Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to 1 / 4 ; 1 / 2 ; 3 / 4	Read and write decimal numbers as fractions (e.g. 0.71 = 71 / 100) Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction	fractions in the same denomination Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3 / 8) Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
	ADDING AND SUBTR	Add and subtract fractions with the same denominator within one whole (e.g. 5 / 7 + 1 / 7 = 6 / 7)	Add and subtract fractions with the same denominator	Add and subtract fractions with the same denominator and multiples of the same number Recognise mixed numbers fractions and improper fractions and convert from one form to the other and write mathematical	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

					statements > 1 as a mixed number (e.g. 2 / 5 + 4 / 5 = 6 / 5 = 1 1 / 5)	
	MU	ILTIPLYING AND DIVIDING	G FRACTIONS AND DECIN	MALS		
				Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1 / 4 × 1 / 2 = 1 / 8) Multiply one-digit numbers with up to two decimal places by whole numbers Divide proper fractions by whole numbers

			(e.g. 1 / 3 ÷ 2 =
			1/6)
			Multiply
			one-digit
			numbers with up
			to two decimal
			places by whole
			numbers
			AA 1.5 1 1
			Multiply and
			divide numbers
			by 10, 100 and 1000 where the
			1000 where the
			to three
			desimal places
			decimal places
			Tdentify the
			value of each
			digit to three
			decimal places
			and multiply and
			divide numbers
			by 10, 100 and
			1000 where the
			answers are up
			to three
			decimal places
			Associate a
			fraction with
			division and

			calculate
			aecimal traction
			equivalents (e.a.
			0.275) for a
			0.375) for a
			simple fraction
			(a a 3 / 8)
			(e.g. 570)
			Use written
			division
			methods in
			cacac where the
			cuses where the
			answer has up
			to two decimal
			places

PROBLEM SOLVING WITH FRACTIONS< DECIMALS AND PERCENTAGES						
			Solve problems that involve all of the above	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number Solve simple measure and money problems involving fractions and decimals to two decimal places.	Solve problems involving numbers up to three decimal places Solve problems which require knowing percentage and decimal equivalents of 1 / 2 , 1 / 4 , 1 / 5 , 2 / 5 , 4 / 5 and those with a denominator of a multiple of 10 or 25.	



The resources above are ony suggestions and not an excusive list for each Year group. A range of resources should be avaialble to ALL children within each lesson and modelled to the children as part of the lesson. These should be easily accessed by ALL children to underpin and extend their learning of key concepts. Careful planning should be used to link an appropriate resource to childrens understanding and these chices should be underpinned by discussions with previous teachers about resources used with current learners. Clear links between resources should be made explicit to the children allowing them to build a solid schema.



Eg: Burgers chips and Peas is underpinned through using Dienes or Base 10. The pictorial represenation is similar to the jotting beig made by the children making clear links for the children.

Useful Websites and interactive Resources	 For Children Third Space Learning Maths Hub (resources from maths tuition experts) BBC Bitesize - KS2 Maths (everything) Primary Games Arena (games) Hit the Button (times tables and number bonds) Math is Fun (worksheets) Primary Resources NRich (problem solving and challenge questions) TT Rockstars (competitive times tables) Maths Zone (portal to lots of maths games and quizzes) ICT Games 	For Teachers www.tes.co.uk www.nrich.org www.NCETM.org
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